

# Heavy Vehicle Mass Limits



**JULY 2010**

This fact sheet outlines the maximum mass allowed for various vehicle, trailer and combination types when travelling in New South Wales.

## Rigid Trucks – General Access Vehicle

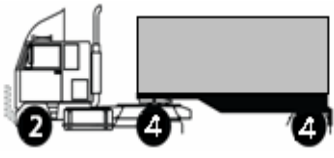
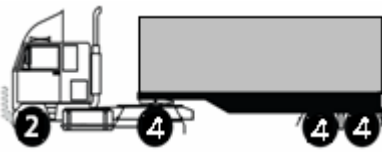
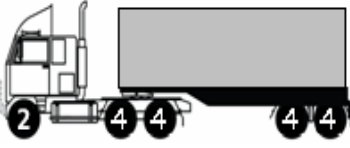

GML	6	6	12t	6	9	15t	6	11	17t	
CML	N/A			N/A			6	11.5	17.5t	<sup>∂</sup>
GML	6	13	19t	6	16.5	22.5t	6	20	26t	
CML	6	13.5	19.5t	6	17	23t	6	21	27t	<sup>∂</sup>
GML	10 <sup>(1)</sup>	9	19t <sup>(1)</sup>	10 <sup>(1)</sup>	16.5	26.5t <sup>(1)</sup>	10 <sup>(1)</sup>	20	30t <sup>(1)</sup>	
CML	N/A			10 <sup>(1)</sup>	17	27t <sup>(1)</sup>	10 <sup>(1)</sup>	21	31t <sup>(1)</sup>	<sup>∂</sup>

(1) Twin-Steer axle group with load-sharing suspension can operate an extra one tonne (ie 11t). The extra one tonne allowed on the twin steer axle group increases the total gross mass of the combination by one tonne.

<sup>∂</sup> Concessional Mass Limit Notice 2006



## Semi Trailers – General Access / Restricted Access Vehicle


									
GML	6	9	9	24t	6	9	16.5	31.5t	
CML	N/A				6	9	17	32t	<sup>∂</sup>
									
GML	6	16.5	16.5	39t	6	16.5	20	42.5t	
CML	6	17	17	40t	6	17	21	43.5t	<sup>∂</sup>
HML	N/A				6	17	22.5	45.5t	IAP <sup>∫</sup>

<sup>∂</sup> Concessional Mass Limits Notice 2006.

<sup>∫</sup> Higher Mass Limits (Eligible Vehicles) Notice 2006.

IAP Vehicle must be fully enrolled in the Intelligent Access Program.


## B-Doubles (19 metres) – General Access Vehicle <sup>(7)</sup>

					
GML	6	16.5	16.5	16.5	50t <sup>(7)</sup>
CML	6	17	17	17	51t <sup>(7)∂</sup>
HML	N/A				

(7) General B-Doubles Permit Notice 2005.  
Note: B-Doubles that are not longer than 19 metres AND have a GCM up to 50 tonnes may operate on all roads, except where prohibited by a load limit sign.

<sup>∂</sup> Concessional Mass Limits Notice 2006.

## B-Doubles (19 metres) – Restricted Access Vehicle<sup>(7)</sup>

					
GML	6	16.5	16.5	16.5	55.5t <sup>(7)</sup>
CML	6	17	17	17	57t <sup>(7)∂</sup>
HML	6	17	17	17	57t IAP <sup>(7)∫</sup>


(7) General B-Doubles Permit Notice 2005.

∂ Concessional Mass Limits Notice 2006.

∫ Higher Mass Limits (Eligible Vehicles) Notice 2006.

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## B-Doubles (23 metres) – Restricted Access Vehicle<sup>(7)</sup>

					
GML	6	16.5	20	16.5	59t <sup>(7)</sup>
CML	6	17	21	17	61t <sup>(7)∂</sup>
HML	6	17	22.5	17	62.5t IAP <sup>(7)∫</sup>

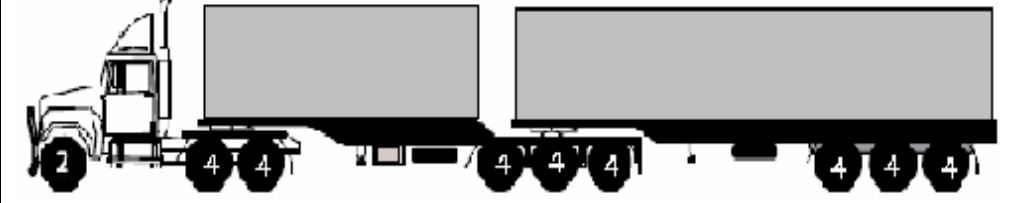
(7) General B-Doubles Permit Notice 2005.

∂ Concessional Mass Limits Notice 2006.

∫ Higher Mass Limits (Eligible Vehicles) Notice 2006.

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## B-Doubles (25/26 metres) – Restricted Access Vehicle<sup>(7)(8)</sup>

					
GML	6	16.5	20	20	62.5t <sup>(7)(8)</sup>
CML	6	17	21	21	64.5t <sup>(7)(8)∂</sup>
HML	6	17	22.5	22.5	68t IAP <sup>(7)(8)∫</sup>

(7) General B-Doubles Permit Notice 2005.

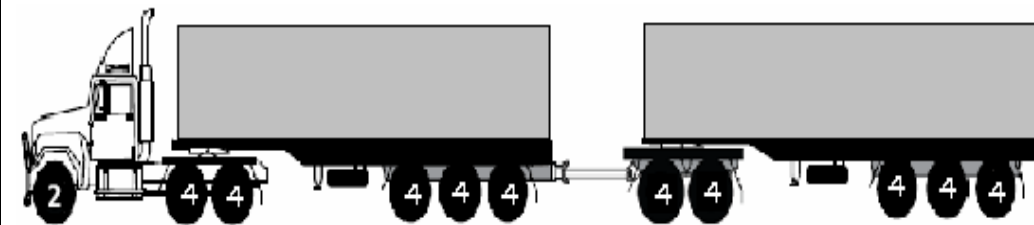
(8) 26 metre B-Double Exemption Notice 2005.

∂ Concessional Mass Limits Notice 2006.

∫ Higher Mass Limits (Eligible Vehicles) Notice 2006.

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## Road Trains (up to 36.5m) – Restricted Access Vehicle<sup>(9)</sup>

						
GML	6	16.5	20	16.5	20	79t <sup>(9)</sup>
CML	6	17	21	17	21	81t <sup>(9)∂</sup>
HML	6	17	22.5	17	22.5	85t IAP <sup>(9)∫</sup>


(9) General Notice for the Operation of Road Trains 2005.

∂ Concessional Mass Limits Notice 2006.

∫ Higher Mass Limits (Eligible Vehicles) Notice 2006.

IAP Vehicle must be fully enrolled in the Intelligent Access Program.

## B-Triple (up to 36.5m) – IAP<sup>(9)(10)</sup>



GML	6	16.5	20	20	20	82.5t IAP <sup>(9)</sup>
CML	6	17	21	21	21	84.5t IAP <sup>(9)∂</sup>
HML	6	17	22.5	22.5	22.5	90.5t IAP <sup>(9)∫</sup>

(9) General Notice for the Operation of Road Trains 2005.

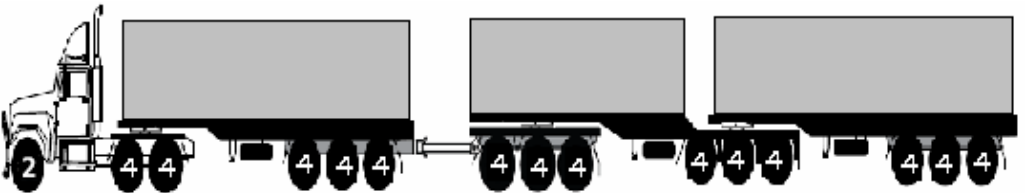
(10) Refer to RTA “Road Train Modernisation Program: B-Triple & AB-Triple Operating Conditions” for further information.

∂ Concessional Mass Limits Notice 2006.

∫ Higher Mass Limits (Eligible Vehicles) Notice 2006.

IAP Vehicle must be fully enrolled in the Intelligent Access Program.

## AB-Triple (up to 36.5m) – IAP<sup>(9)(10)</sup>



GML	6	16.5	20	20	20	102.5t IAP <sup>(9)</sup>
CML	6	17	21	21	21	104.5t IAP <sup>(9)∂</sup>
HML	6	17	22.5	22.5	22.5	113t IAP <sup>(9)∫</sup>

(9) General Notice for the Operation of Road Trains 2005.


(10) Refer to RTA “Road Train Modernisation Program: B-Triple & AB-Triple Operating Conditions” for further information.

∂ Concessional Mass Limits Notice 2006.

∫ Higher Mass Limits (Eligible Vehicles) Notice 2006.

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## Quad Axles – IAP<sup>(11)</sup>

				
GML	6	16.5	20	42.5t IAP
CML	N/A			
HML	6	17	27	50t IAP <sup>f</sup>

(11) Refer to RTA 'NSW Quad-Axle Semi-Trailer Pilot Scheme' for further information.

f Higher Mass Limits (Eligible Vehicles) Notice 2006.

IAP Vehicle must be fully enrolled in the Intelligent Access Program.

## Summary – mass limits for single axles and axle groups

Description of single axle or axle group	General Mass Limit (GML) (tonnes)	Concessional Mass Limit (CML) (tonnes)	Higher Mass Limit (HML) (tonnes)
<b>STEER AXLE</b>			
Single steer axle	6.0 <sup>§</sup>	6.0 <sup>§</sup>	6.0 <sup>§</sup>
Twin steer axle	10.0	10.0	10.0
Twin steer axle with load-sharing suspension system	11.0	11.0	11.0
<b>NON-STEER AXLE GROUPS</b>			
Single axles and Single axle groups fitted with single tyres			
- with a section width of less than 375mm	6.0	6.0	6.0
- with a section width of 375mm - 450mm	6.7	6.7	6.7
- with a section width of at least 450mm	7.0	7.0	7.0
Single axles and Single axle groups fitted with dual tyres			
Tandem axle group fitted with single tyres			
- with a section width of less than 375mm	11.0	11.5	11.5
- with a section width of 375mm - 450mm	13.3	13.8	13.8
- with a section width of at least 450mm	14.0	14.5	14.5
Tandem axle group fitted with single tyres on one axle and dual tyres on the other			
	13.0	13.5	13.5
Tandem axle group fitted with dual tyres			
	16.5	17.0	17.0
Tri-axle group with either single tyres with section width of at least 375mm, dual tyres, or a combination of those tyres			
	20.0	21.0	22.5
Quad-axle group fitted with dual tyres			
	20.0	N/A	27.0

# Notes

† The gross mass of a vehicle or vehicle combination must not exceed the lowest of:

- The sum of the axle and axle groups mass;
- The total gross mass of the combination;
- The sum of the manufacturer's mass limits for the Prime Mover (GVM) and the semi-trailers (Gross Trailer Mass); or
- The Gross Combination Mass (GCM) limit specified by the prime mover manufacturer.

◇ All requirements and conditions are to be observed when a vehicle is operating under Permit Notice.

§ Under Gazette Notices published in NSW, prime movers with a GVM of 15 tonnes or more meeting Front Under-run Protection Systems, cabin strength and ADR80/01 (engine emissions standards) can operate at 6.5 tonnes on the steer axle. The extra 500kg allowed on the steer axle increases the total gross mass of the combination by 500kg.

∂ Vehicles wishing to operate at CML must meet all the requirements listed in the "Concessional Mass Limits Notice 2006". Subject to the following CML Limits:

- A maximum one (1) tonne increase for a vehicle or vehicle combination with an allowable gross mass not exceeding 55 tonnes.
- A maximum two (2) tonnes increase for a vehicle or vehicle combination with an allowable gross mass exceeding 55 tonnes.
- For more information about mass, dimension and axle spacing, refer to RTA document 'Heavy Vehicle Mass, Loading and Access' available on [www.rta.nsw.gov.au](http://www.rta.nsw.gov.au) under 'Heavy Vehicles'
- For all permit notices, visit [www.rta.nsw.gov.au](http://www.rta.nsw.gov.au) in the 'Rules & Regulations' section under 'Heavy Vehicles'.

For more information on the Intelligent Access Program visit [www.rta.nsw.gov.au/iap](http://www.rta.nsw.gov.au/iap) or [www.iap.gov.au](http://www.iap.gov.au)